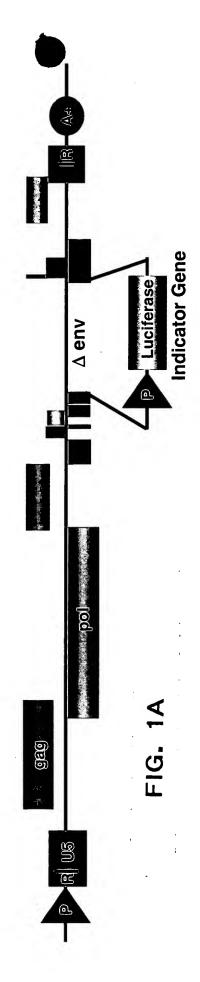
### PhenoSense HIV Entry Assay

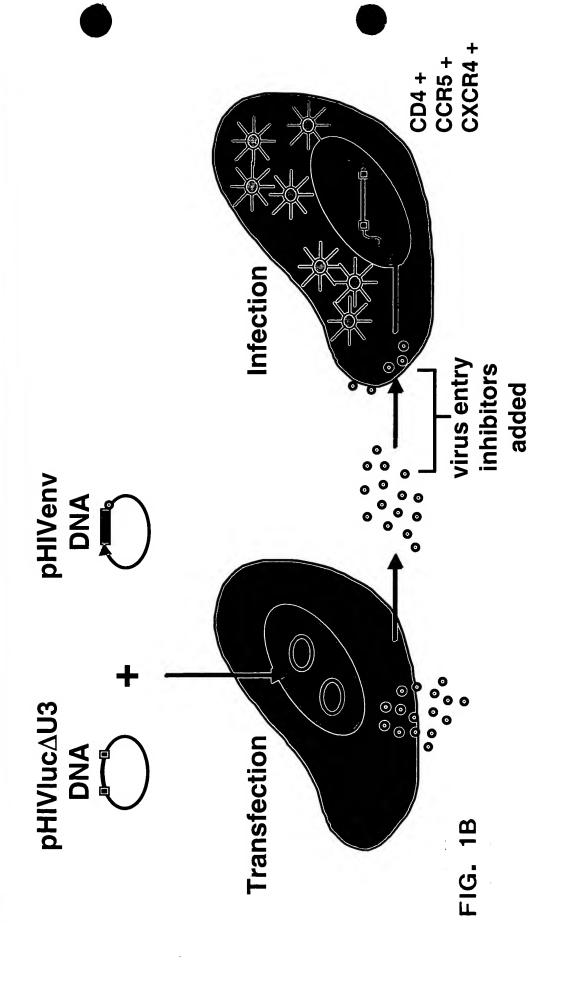
**Envelope Expression Vector: pHIVenv** 



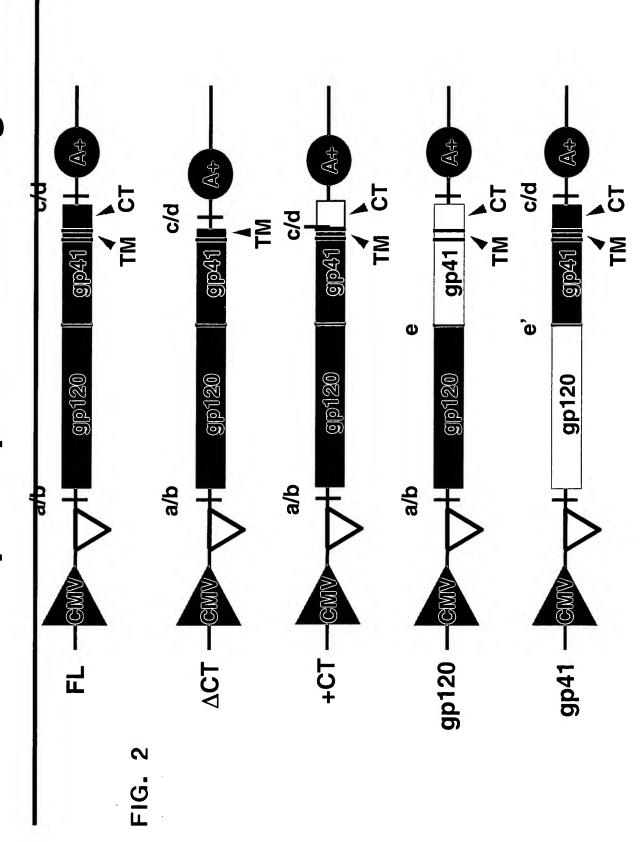
#### HIV-1 Expression Vector: pHIVIuc∆U3



### PhenoSense TMHIV: Cell Assay



### HIV Envelope Expression Strategies



# Co-Receptor Tropism Assay Interpretation



		17		
	R5	X 4	R5:X4	
no drug	no drug 67,389	72	936	
R5 inhibitor	99			
X4 inhibitor	42,295			
%inhib by R5 inhibitor	100			
%inhib by X4 inhibitor	37			

active RLU limit: 100 tropism ratio limit: 5

				W S	30 190 100 100 100 100 100 100 100 100 10		
=	₩ + + + + + + + + + + + + + + + + + + +	Ø. 3			, , , , , , , , , , , , , , , , , , ,		4. ₩ 3.
		<u> </u>	(A) A(C) (A) (A) (A) (A) (A) (A) (A) (A) (A) (A	, o			
	- 00- <b>20</b>					4	

		35	
	R5	X 4	R5:X4
no drug	43	42	
R5 inhibitor			
X4 inhibitor			
%inhib by R5 inhibitor			
%inhib by X4 inhibitor			

R5:X4

10,839

8,580 99

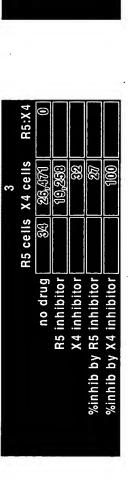
12,020

14,982

3,384

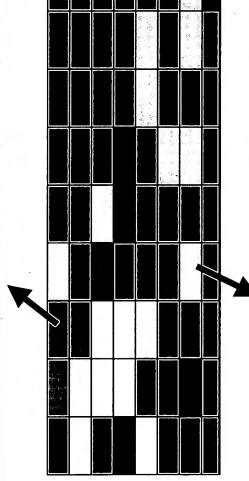
R5 inhibitor X4 inhibitor %inhib by R5 inhibitor %inhib by X4 inhibitor FIG. 3A

# Co-Receptor Tropism Assay Interpretation



ख्यकार इ	GGRE	<b>DUAL or MIXED</b>	381 1000

RLU limit: 100	sm ratio limit: {
active F	tropism



3B	
<u>ত</u>	
正	

		9/	
	R5	X 4	R5:X4
no drug	14,982	12,020	Section of the second of
R5 inhibitor	111	10,839	
X4 inhibitor	8,580	3,384	
%inhib by R5 inhibitor	66	10	7.0
%inhib by X4 inhibitor	43	72	

	R5:X4					
95	X 4	42				
	R5	43				
		no drug	R5 inhibitor	X4 inhibitor	%inhib by R5 inhibitor	%inhib by X4 inhibitor

## Entry Inhibitor Susceptibility: Fusion Inhibitor

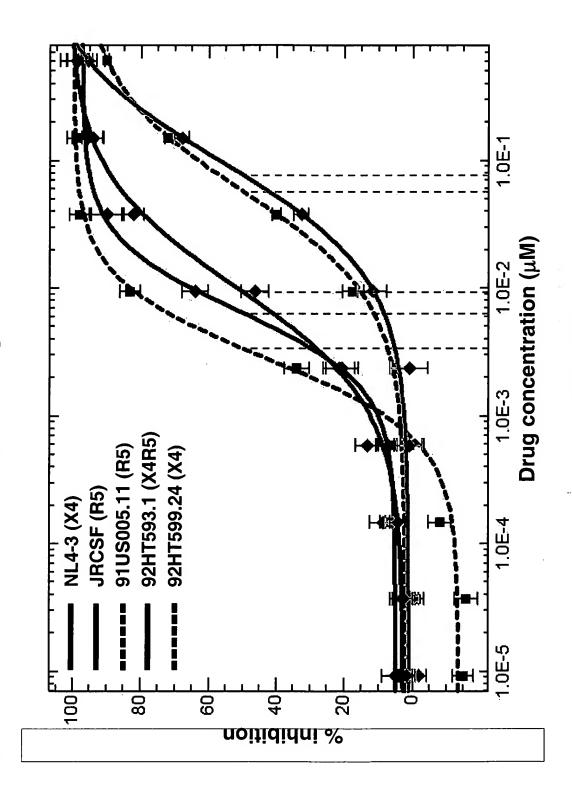
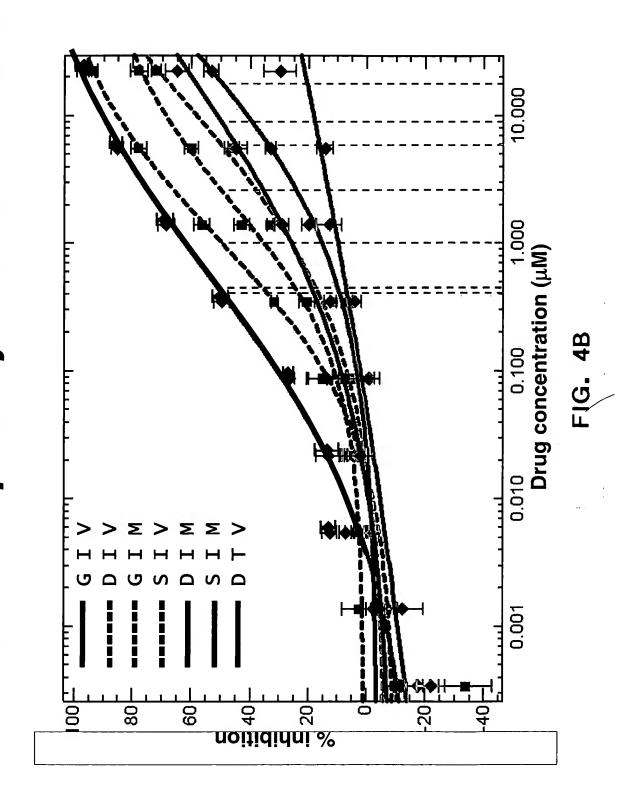


FIG. 4A

Reduced Susceptibility: Fusion Inhibitor



Entry Inhibitor Susceptibility: CCR5 Inhibitor

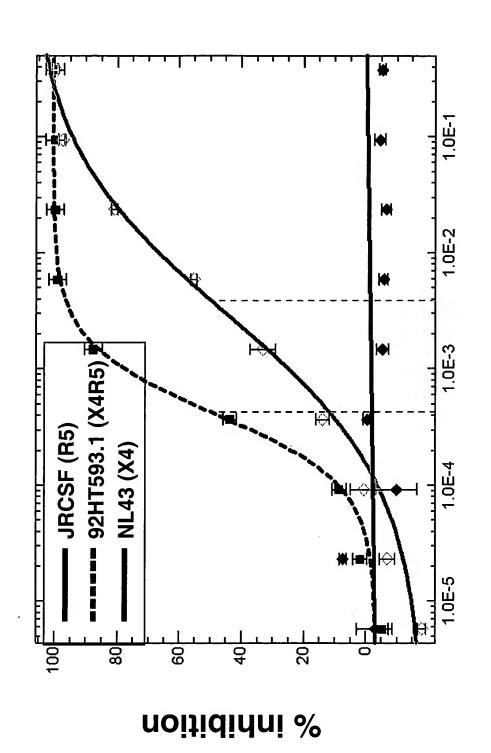


FIG. 5A

Drug: R5 Inhibitor Cell: CD4/CCR5

## Entry Inhibitor Susceptibility: CXCR4 Inhibitor

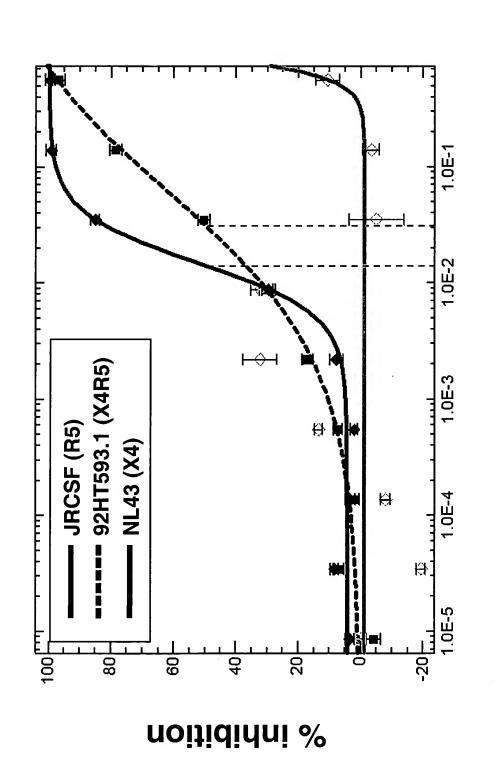
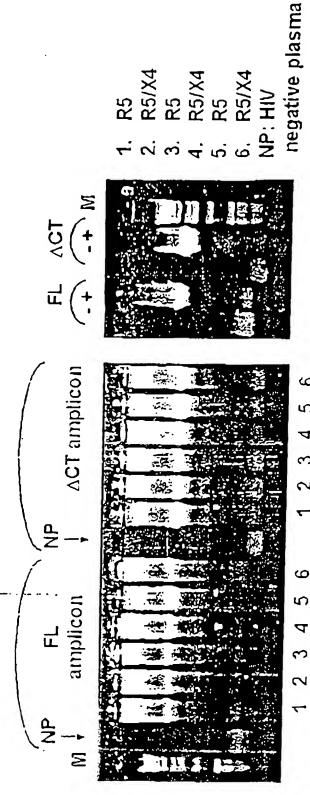


FIG. 5B

Drug: X4 Inhibitor Cell: CD4/CXCR4

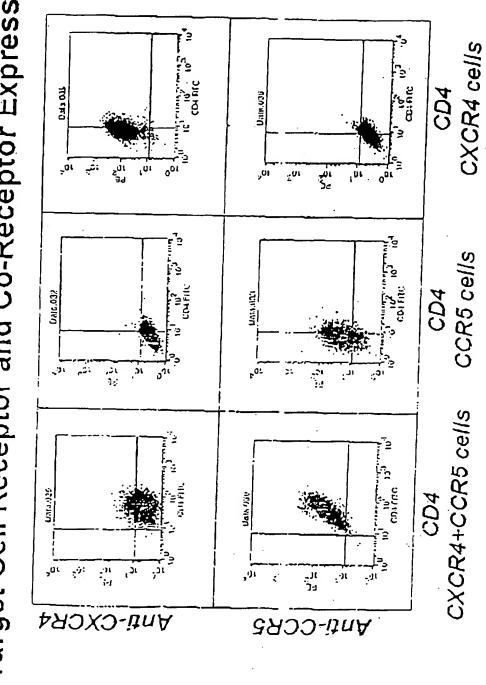
rooyyor, oetsoe

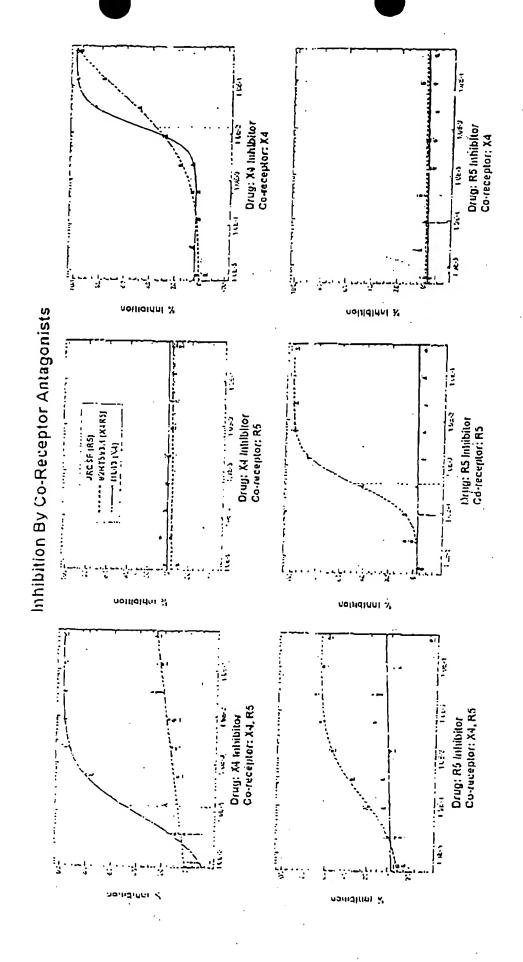
#### Enyelope Sequence Amplification

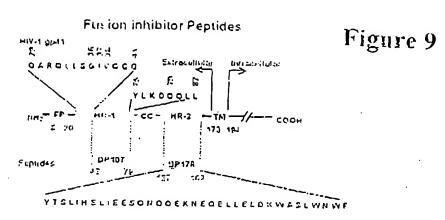


# of isolates 15 24 15 35	# of isolate 2 76 7 3
Co-Receptor Tropism X4 R5 X4/R5 Undefined	Envelope Subtype Clade A Clade B Clade C Clade C Clade D Clade E

Target Cell Receptor and Co-Receptor Expression







Rimsky, st. at., at. 20 at. 77 (2):506-953

### Figure X: Patient Virus v. Patient Antibody

				Plasm	Plasma (Antibody) Date	y) Date			
Virus Date	9/2/99	11/29/99	2/29/00	5/31/00	8/30/00	11/22/00	2/14/01	5/30/01	9/11/01
9/2/99	56	219	675	1403	2670	2089	2190	2363	2411
11/29/99	59	179	1024	2151	3733	3152	2808	2953	3086
2/29/00	27	35	78	358	1769	1939	2247	3112	4345
5/31/00	36		82	200	795	1078	1371	2208	3375
8/30/00	19	48	36	64	9/	166	556	937	1407
11/22/00	29	43	64	9/	06	119	374	721	1234
2/14/01	42	65	61	152	117	134	122	289	526
5/30/01	41	99	82	84	85	113	78	107	296
9/11/01	42	62	56	62	85	77	55	61	92
Reference Virus									
NL43	41	138	294	926	1172	823	1584	1868	2143
JRCSL	24	37	35	09	87	97	105	152	209